

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 227  | random same ((product or ratio) near3 reactivity)   | US-PGPUB; USPAT                                   | OR               | OFF     | 2010/01/23 14:05 |
| L2    | 1627 | 526/348.6.CCLS.   | US-PGPUB; USPAT                                   | OR               | ON      | 2010/01/23 15:05 |
| L3    | 11   | 1 and 2   | US-PGPUB; USPAT                                   | OR               | ON      | 2010/01/23 15:05 |
| L4    | 1339 | 525/191.ccls.   | US-PGPUB; USPAT                                   | OR               | ON      | 2010/01/23 15:32 |
| L5    | 623  | random and ((product or ratio) near3 reactivity) and (butene or polybutene)   | US-PGPUB; USPAT                                   | OR               | ON      | 2010/01/23 15:33 |
| L6    | 22   | 4 and 5   | US-PGPUB; USPAT                                   | OR               | ON      | 2010/01/23 15:33 |
| S1    | 14   | ("20040254315"   "4220554"   "4298718"   "4399054"   "4469648"   "4495338").PN.   | US-PGPUB; USPAT; DERWENT                          | OR               | OFF     | 2008/09/29 08:41 |
| S2    | 6    | ("20040254315"   "4220554"   "4298718"   "4399054"   "4469648"   "4495338").PN.   | US-PGPUB; USPAT                                   | OR               | OFF     | 2008/09/29 08:41 |
| S3    | 0    | EP-0172961-\$._DID.   | DERWENT   | OR               | ON      | 2008/09/29 10:27 |
| S4    | 1    | EP-172961-\$._DID.  | DERWENT   | OR               | ON      | 2008/09/29 10:27 |
| S5    | 5    | EP-172961-\$._DID. or EP-353318-\$._DID. or EP-353319-\$._DID. or EP-395083-\$._DID. or EP-553805-\$._DID. or WO-199945043-\$._DID. or WO-200063261-\$._DID. or WO-200342258-\$._DID. | DERWENT   | OR               | ON      | 2008/09/29 10:32 |
| S6    | 0    | WO-1999045043-\$._DID. or WO-200063261-\$._DID. or WO-200342258-\$._DID.  | DERWENT   | OR               | ON      | 2008/09/29 10:38 |
| S7    | 0    | ("WO-1999045043-\$._DID.orWO-200063261-\$._DID.orWO-200342258-\$._DID.").PN.  | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2008/09/29 10:39 |
| S8    | 1    | WO-99045043-\$._DID. or WO-0063261-\$._DID. or WO-0342258-\$._DID.  | DERWENT   | OR               | ON      | 2008/09/29 10:42 |
| S9    | 1    | WO-99045043-\$._DID. or WO-0063261-\$._DID. or WO-0342258-\$._DID.  | DERWENT   | OR               | ON      | 2008/09/29 10:44 |
| S10   | 0    | WO-00063261-\$._DID.  | DERWENT   | OR               | ON      | 2008/09/29 10:47 |

|     |       |   |                                    |    |     |                  |
|-----|-------|---|------------------------------------|----|-----|------------------|
| S11 | 1     | WO-0063261-\$..DID.   | DERWENT                            | OR | ON  | 2008/09/29 10:47 |
| S12 | 0     | WO-99045043-\$..DID.  | DERWENT                            | OR | ON  | 2008/09/29 10:51 |
| S13 | 1     | WO-9945043-\$..DID.   | DERWENT                            | OR | ON  | 2008/09/29 10:51 |
| S14 | 1     | WO-9844001-\$..DID.   | DERWENT                            | OR | ON  | 2008/09/29 10:52 |
| S15 | 4     | EP-553806-\$..DID. or EP-601525-\$..DID. or EP-640624-\$..DID. or EP-712869-\$..DID.  | DERWENT                            | OR | ON  | 2008/09/29 10:55 |
| S16 | 76    | ((GIAMPIERO) near2 (MORINI)).INV.   | US-PGPUB; USPAT; USOCR             | OR | OFF | 2008/09/29 12:12 |
| S17 | 23    | ((FABRIZIO) near2 (PIEMONTESI)).INV.  | US-PGPUB; USPAT; USOCR             | OR | OFF | 2008/09/29 12:12 |
| S18 | 22    | ((GIANNI) near2 (VITALE)).INV.  | US-PGPUB; USPAT; USOCR             | OR | OFF | 2008/09/29 12:12 |
| S19 | 9     | ((DANIELE) near2 (BIGLAVI)).INV.  | US-PGPUB; USPAT; USOCR             | OR | OFF | 2008/09/29 12:13 |
| S20 | 51    | ((ANTEO) near2 (PELLICONI)).INV.  | US-PGPUB; USPAT; USOCR             | OR | OFF | 2008/09/29 12:13 |
| S21 | 19    | ((ENEA) near2 (GARAGNANI)).INV.   | US-PGPUB; USPAT; USOCR             | OR | OFF | 2008/09/29 12:13 |
| S22 | 7     | ((PIETRO) near2 (BAITA)).INV.   | US-PGPUB; USPAT; USOCR             | OR | OFF | 2008/09/29 12:13 |
| S23 | 164   | S16 or S17 or S18 or S19 or S20 or S21 or S22   | US-PGPUB; USPAT; USOCR             | OR | ON  | 2008/09/29 12:15 |
| S24 | 39193 | (butene or polybutene or polybutylene or butylene) and (reactivity or pentad or (isotactic near4 index) or insertion)   | US-PGPUB; USPAT; USOCR             | OR | ON  | 2008/09/29 13:55 |
| S25 | 53    | ((butene or polybutene or polybutylene or butylene) and (reactivity or pentad or (isotactic near4 index) or insertion)).ab.   | US-PGPUB; USPAT; USOCR             | OR | ON  | 2008/09/29 13:55 |
| S26 | 1876  | (reactivity adj ratio)  | US-PGPUB; USPAT; USOCR             | OR | ON  | 2008/09/29 14:00 |
| S27 | 9     | (reactivity adj ratio).ab. and (butene or butylene or polybutene or polybutylene)   | US-PGPUB; USPAT; USOCR             | OR | ON  | 2008/09/29 14:01 |
| S28 | 98    | ((reactivity adj ratio) or "r1.times. r2\$" or "r1.r2" or "r1r2.1toreq.") and (butene or butylene or polybutene or polybutylene) and ((isotactic\$ near3 (index or number)) or pentad or mmmm) and ("4,1" or insertion) | US-PGPUB; USPAT; USOCR             | OR | ON  | 2008/09/29 14:10 |
| S29 | 2284  | (butene or butylene or polybutene or polybutylene) and ((isotactic\$ near3 (index or number)) or pentad or mmmm) and ("4,1" or insertion or "1,4")  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON  | 2008/09/29 15:19 |

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| S30 | 456     | (butene or butylene or polybutene or polybutylene) and (((isotactic\$ near3 (index or number)) or pentad or mmmm) and insertion)  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/09/29 15:19 |
| S31 | 38      | (butene or butylene or polybutene or polybutylene).ab. and (((isotactic\$ near3 (index or number)) or pentad or mmmm) and insertion)  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/09/29 15:20 |
| S32 | 4100    | (butene or butylene or polybutene or polybutylene) and (((isotactic\$ near3 (index or number)) or pentad or mmmm or insertion or random\$ or isotactic\$)                       | EPO; JPO; DERWENT                  | OR | ON | 2008/10/01 08:37 |
| S33 | 4100    | (butene or butylene or polybutene or polybutylene) and (((isotactic\$ near3 (index or number)) or pentad or mmmm or insertion or random\$ or isotactic\$)                       | EPO; JPO; DERWENT                  | OR | ON | 2008/10/01 08:38 |
| S34 | 11      | (butene or butylene or polybutene or polybutylene) and (product near5 reactivity)   | DERWENT                            | OR | ON | 2008/10/01 14:39 |
| S35 | 0       | ("r1.times.r2") and (butene or butylene or polybutene or polybutylene)  | DERWENT                            | OR | ON | 2008/10/01 14:41 |
| S36 | 2       | ("r1.r2") and (butene or butylene or polybutene or polybutylene)  | DERWENT                            | OR | ON | 2008/10/01 14:41 |
| S37 | 21753   | (butene or butylene or polybutene or polybutylene) and (((isotactic\$ near3 (index or number)) or pentad or mmmm or insertion or isotactic\$ or (product near5 reactivity))     | US-PGPUB; USPAT                    | OR | ON | 2008/10/01 14:43 |
| S38 | 586     | (butene or butylene or polybutene or polybutylene).ab. and (((isotactic\$ near3 (index or number)) or pentad or mmmm or insertion or isotactic\$ or (product near5 reactivity)) | US-PGPUB; USPAT                    | OR | ON | 2008/10/01 14:44 |
| S39 | 179955  | "526"/\$7.ccls. or "525"/\$7.ccls. or "524"/\$7.ccls.   | US-PGPUB; USPAT                    | OR | ON | 2008/10/01 14:44 |
| S40 | 320     | S38 and S39   | US-PGPUB; USPAT                    | OR | ON | 2008/10/01 14:44 |
| S41 | 1564    | 526/348.6.CCLS.   | US-PGPUB; USPAT                    | OR | ON | 2008/10/01 15:46 |
| S42 | 1938313 | ((isotactic\$ near3 (index or number)) or pentad or mmmm or insertion or random\$ or isotactic\$ or (product near5 reactivity))   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/10/01 15:47 |

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|-----|---------|---|------------------------------------|----|----|------------------|
| S43 | 1414830 | ((isotactic\$ near3 (index or number)) or pentad or mmmm or insertion or random\$ or isotactic\$ or (product near5 reactivity))   | US-PGPUB; USPAT                    | OR | ON | 2008/10/01 15:48 |
| S44 | 660     | S41 and S43   | US-PGPUB; USPAT                    | OR | ON | 2008/10/01 15:48 |
| S45 | 587     | S44 not S40   | US-PGPUB; USPAT                    | OR | ON | 2008/10/01 15:48 |
| S46 | 1240    | 525/191.cds.  | US-PGPUB; USPAT                    | OR | ON | 2008/10/01 15:53 |
| S47 | 586     | ((butene or butylene or polybutene or polybutylene).ab. and ((isotactic\$ near3 (index or number)) or pentad or mmmm or insertion or isotactic\$ or (product near5 reactivity)) | US-PGPUB; USPAT                    | OR | ON | 2008/10/01 15:53 |
| S48 | 18      | S46 and S47   | US-PGPUB; USPAT                    | OR | ON | 2008/10/01 15:53 |
| S49 | 1       | EP-12731-\$ DID.  | DERWENT                            | OR | ON | 2008/10/01 16:16 |
| S50 | 0       | EP-0212731-\$ DID.  | DERWENT                            | OR | ON | 2008/10/01 16:19 |
| S51 | 0       | EP-200212731-\$ DID.  | DERWENT                            | OR | ON | 2008/10/01 16:19 |
| S52 | 1       | US-20040260040-\$ DID.  | DERWENT                            | OR | ON | 2008/10/01 16:35 |
| S53 | 2       | "20040106738".pn.   | US-PGPUB; USPAT; DERWENT           | OR | ON | 2008/10/01 17:11 |
| S54 | 16335   | (4,1-insertion) or (1,4-insertion) or ("1,4" near2 insertion) or ("4,1" near2 insertion)  | US-PGPUB; USPAT; DERWENT           | OR | ON | 2008/10/02 06:56 |
| S55 | 228855  | ((butene or butylene or polybutene or polybutylene)   | US-PGPUB; USPAT; DERWENT           | OR | ON | 2008/10/02 06:57 |
| S56 | 227     | S54 and S55   | US-PGPUB; USPAT; DERWENT           | OR | ON | 2008/10/02 06:57 |
| S57 | 2897    | (4,1-insertion) or (1,4-insertion) or ("1,4" near2 insertion) or ("4,1" near2 insertion)  | EPO; JPO                           | OR | ON | 2008/10/02 07:11 |
| S58 | 11314   | (butene or butylene or polybutene or polybutylene)  | EPO; JPO                           | OR | ON | 2008/10/02 07:11 |
| S59 | 4       | S57 and S58   | EPO; JPO                           | OR | ON | 2008/10/02 07:11 |
| S60 | 1       | JP-56074109-\$ DID.   | DERWENT                            | OR | ON | 2008/10/02 07:30 |
| S61 | 2366    | (reactivity near2 ratio)  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2008/10/02 08:07 |

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|-----|--------|--|------------------------------------|----|-----|------------------|
| S62 | 240169 | (butene or polybutene or polybutene or polybutylene)   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON  | 2008/10/02 08:08 |
| S63 | 1020   | S61 and S62  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON  | 2008/10/02 08:08 |
| S64 | 1      | "7232871"  | DERWENT                            | OR | ON  | 2008/10/02 11:54 |
| S65 | 2      | "20070208139".pn.  | US-PGPUB; DERWENT                  | OR | ON  | 2008/10/02 14:25 |
| S66 | 1      | JP-02024339-\$ DID.  | DERWENT                            | OR | OFF | 2008/10/06 09:30 |
| S67 | 2373   | ((melt adj index) same (melting adj point)   | US-PGPUB; USPAT                    | OR | ON  | 2008/10/06 09:38 |
| S68 | 588015 | ((ethylene or propylene or butene  | US-PGPUB; USPAT                    | OR | ON  | 2008/10/06 09:39 |
| S69 | 2193   | S67 and S68  | US-PGPUB; USPAT                    | OR | ON  | 2008/10/06 09:39 |
| S70 | 114467 | "525"/\$ .cls. or "526"/\$ .cls.   | US-PGPUB; USPAT                    | OR | ON  | 2008/10/06 09:40 |
| S71 | 817    | S69 and S70  | US-PGPUB; USPAT                    | OR | ON  | 2008/10/06 09:40 |
| S72 | 846    | S67 and S70  | US-PGPUB; USPAT                    | OR | ON  | 2008/10/06 09:41 |
| S73 | 3      | EP-172961-\$ .DID. or EP-186287-\$ .DID. or EP-640624-\$ .DID. or WO-2083754-\$ .DID.                | US-PGPUB; USPAT; DERWENT           | OR | OFF | 2008/10/06 15:36 |
| S74 | 4      | EP-172961-\$ .DID. or EP-186287-\$ .DID. or EP-640624-\$ .DID. or WO-2083754-\$ .DID.                | EPO                                | OR | OFF | 2008/10/06 15:38 |
| S75 | 0      | JP-6206940-\$ .DID.  | DERWENT                            | OR | OFF | 2008/10/06 15:40 |
| S76 | 1      | JP-06206940-\$ .DID.   | DERWENT                            | OR | OFF | 2008/10/06 15:40 |
| S77 | 24     | ((butene or polybutene) and amorphous and crystalline).ab.   | US-PGPUB; USPAT                    | OR | ON  | 2009/07/17 21:12 |
| S78 | 26     | ((butene or polybutene) and elastomer\$ and crystalline).ab.   | US-PGPUB; USPAT                    | OR | ON  | 2009/07/17 21:18 |
| S79 | 1      | "20040260040".pn.  | DERWENT                            | OR | ON  | 2009/07/18 10:24 |
| S80 | 1926   | (butene or polybutene).ab. and (random or (product near3 reactivity) or pentad or insertion or mmmm) | DERWENT                            | OR | ON  | 2009/07/18 10:31 |
| S81 | 318    | (butene or polybutene).ti. and (random or (product near3 reactivity) or pentad or insertion or mmmm) | DERWENT                            | OR | ON  | 2009/07/18 10:32 |
| S82 | 0      | hexyltrimethoxysilane and "4600762".pn.  | US-PGPUB; USPAT                    | OR | ON  | 2009/07/18 10:54 |
| S83 | 1      | "4600762".pn.  | US-PGPUB; USPAT                    | OR | ON  | 2009/07/18 10:54 |

|      |       |   |                           |    |     |                     |
|------|-------|---|---------------------------|----|-----|---------------------|
| S84  | 118   | thehexyltrimethoxysilane                      | US-PGPUB;<br>USPAT        | OR | ON  | 2009/07/18<br>10:54 |
| S85  | 0     | S83 and S84                                   | US-PGPUB;<br>USPAT        | OR | ON  | 2009/07/18<br>10:54 |
| S86  | 1     | "3629940".pn.                                 | US-PGPUB;<br>USPAT        | OR | ON  | 2009/07/18<br>11:07 |
| S87  | 1     | "3649940".pn.                                 | US-PGPUB;<br>USPAT        | OR | ON  | 2009/07/18<br>11:08 |
| S88  | 1     | "3269940".pn.                                 | US-PGPUB;<br>USPAT        | OR | ON  | 2009/07/18<br>11:08 |
| S89  | 1606  | 526/348.6.CCLS.                               | US-PGPUB;<br>USPAT        | OR | ON  | 2009/07/18<br>14:00 |
| S90  | 83    | ((G AMPIERO) near2 (MORINI)).INV.             | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/07/18<br>14:15 |
| S91  | 24    | ((FABRIZIO) near2 (P EMONTESI)).INV.          | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/07/18<br>14:15 |
| S92  | 26    | ((GIANNI) near2 (VITALE)).INV.                | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/07/18<br>14:15 |
| S93  | 10    | ((DANIELE) near2 (BIGLAVI)).INV.              | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/07/18<br>14:15 |
| S94  | 56    | ((ANTEO) near2 (PELLICONI)).INV.              | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/07/18<br>14:15 |
| S95  | 23    | ((ENEA) near2 (GARAGNANI)).INV.               | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/07/18<br>14:15 |
| S96  | 10    | ((PIETRO) near2 (BAITA)).INV.                 | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/07/18<br>14:15 |
| S97  | 180   | S90 or S91 or S92 or S93 or S94 or S95 or S96 | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/07/18<br>14:15 |
| S98  | 12301 | (butene or polybutene).clm.                   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/07/18<br>14:15 |
| S99  | 44    | S97 and S98                                   | US-PGPUB;<br>USPAT; USOCR | OR | ON  | 2009/07/18<br>14:15 |
| S100 | 1288  | 525/191.ccls.                                 | US-PGPUB;<br>USPAT        | OR | ON  | 2009/07/18<br>14:24 |
| S101 | 2281  | (butene or polybutene).ab.                    | US-PGPUB;<br>USPAT        | OR | ON  | 2009/07/18<br>14:25 |
| S102 | 48    | S100 and S101                                 | US-PGPUB;<br>USPAT        | OR | ON  | 2009/07/18<br>14:25 |
| S103 | 1     | EP-1215239-\$.DID.                            | DERWENT                   | OR | ON  | 2009/07/18<br>14:29 |

**EAST Search History (Interference)**

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1/23/2010 3:34:45 PM

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